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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,598	10/12/2005	Johannes Rau	LO29-021	1351
21567	7590	05/04/2007	EXAMINER	
WELLS ST. JOHN P.S. 601 W. FIRST AVENUE, SUITE 1300 SPOKANE, WA 99201			HASAN, MOHAMMED A	
ART UNIT		PAPER NUMBER		
2873				
MAIL DATE		DELIVERY MODE		
05/04/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/523,598	RAU ET AL.
	Examiner Mohammed Hasan	Art Unit 2873

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on _____.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-11 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
 5) Claim(s) ____ is/are allowed.
 6) Claim(s) 1-4, 6, 7, 10, 11 is/are rejected.
 7) Claim(s) 5, 8 and 9 is/are objected to.
 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 04 February 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 3/11/2005

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Priority

1. Receipt of acknowledged of papers submitted under 35 U.S.C. 119 (a) – (d), which papers have placed in the file.

Oath/Declaration

2. Oath and declaration filed on 10/12/2005 is accepted.

Information Disclosure Statement

3. The prior art documents submitted by applicant in the Information Disclosure Statement filed on 3/11/2005 have all been considered and made of record (note the attached copy of form PTO – 1449).

Claim Rejections - 35 USC § 102

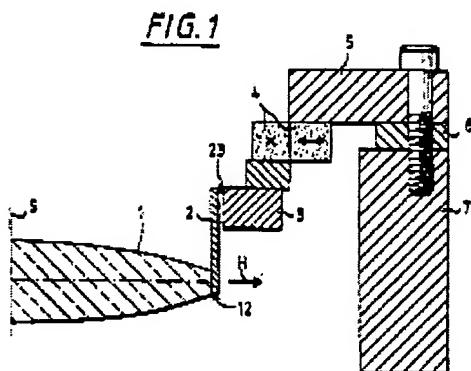
4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4,6,7,10, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Holderer et al (6,229,657 B1).

Regarding claim 1, Holderer et al discloses (refer to figures 1-7) an apparatus (i.e., housing 7) for holding an optical assembly in an imaging device which has a number of optical assemblies (a lens and mount 5), wherein the optical assembly is suspended via at least one decoupling element (i.e., actuators 4) in at least one area in a supporting structure, wherein the resultant effect of the at least one decoupling element in the at least one area is impede possible movement in terms of rotation or translation in at least one suitable one of three orthogonal spatial directions, thus resulting in at least one statically defined bearing (column 3, lines 44- 55, column 4, lines 30 – 45).



Regarding claim 2, Holderer et al discloses wherein an optical assembly is suspended via decoupling elements in at least two different areas in supporting structure, wherein the resultant effect of decoupling elements in each area is stiff in terms of rotation or translation in at least one suitable one of three orthogonal spatial directions, thus resulting in at least one statically defined bearing (as shown in figure 6).

Regarding claim 3, Holderer discloses wherein the imaging device is an objective in the form of a catadioptric objective for a projection exposure system for microlithography (column 5, lines 40-55).

Regarding claim 4, Holderer discloses wherein the optical assemblies are lens group (as shown in figure 1).

Regarding claim 6, Holderer discloses wherein the tangentially stiff decoupling elements (72,73) and the membrane are connected via a stiff intermediate element (column 4, lines 30-40).

Regarding claim 7, Holderer discloses wherein the decoupling elements are in the form of leaf spring elements (column 4, lines 30-35).

Regarding claim 10, Holderer discloses wherein the decoupling elements are chosen such that thermal expansion between supporting structure and assembly do not lead to mechanical forces (as shown in figure 1).

Regarding claim 11, Holderer discloses a projection exposure system for microlithography (column 5, lines 40-57).

Allowable Subject Matter

5. Claims 5,8,9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
6. The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to show wherein decoupling elements in the one area in which

the load is passed to supporting structure is stiff in the spatial direction at least approximately parallel to the force of gravity , wherein optical assembly is suspended in the other area in supporting structure via a combination of tangentially stiff decoupling elements and a membrane and wherein decoupling elements are stiff in the spatial direction at least approximately parallel to the force of gravity in the one area in which the load is transmitted to supporting structure , wherein the suspension of optical assembly in supporting structure in the other area is provided via a large number of tangentially stiff, axially and radially soft elements and wherein the position of the areas, the alignment of leaf spring elements and the spring stiffness of leaf spring elements are chosen such that a first natural form of the oscillation rotates about a point on assembly which is neutral with respect to optical sensitivity.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The closest Lof et al (7,193,232 B2) discloses a lithographic apparatus and device manufacturing method with substrate measurement not through liquid.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammed Hasan whose telephone number is (571) 272-2331. The examiner can normally be reached on M-TH, 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky L Mack can be reached on (571) 272- 2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MH
MAY 1, 2007

Mohammed Hasan
Examiner,AU-2873

DETAILED ACTION

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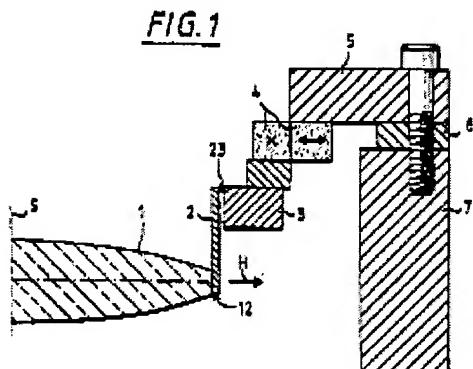
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